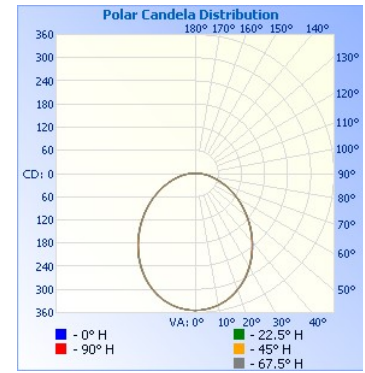


KICHLER®

KICHLER PHOTOMETRIC LAB

Filename: 43846XXLEDYY-Photometric Report

Manufacturer: Kichler Lighting LLC
 Luminaire: 43846XXLEDYY Gen 1 Downlight
 Luminaire Cat: CTR180730-07
 Lamp: Integrated LED AC
 Lamp Output: Total luminaire Lumens: 918.3
 Max Candela: 353.8 at Horizontal: 0°, Vertical: 0°
 Input Wattage: 13.8
 Luminous Opening: Ellipsoidal Spheroid (L: 5.52", W: 5.52", H: 0.48")
 Test: LM-79 Distribution
 Test Lab: Kichler Lighting LLC
 Photometry : Type C
 Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	15.2
Max Cd, 80 to <90 Deg:	41.1
Lumens % Lamp	
Downward Street Side:	453.9 49.4%
Downward House Side:	453.9 49.4%
Downward Total:	907.8 98.9%
Upward Street Side:	5.3 0.6%
Upward House Side:	5.3 0.6%
Upward Total:	10.6 1.2%
Total Lumens:	918.4 100%

Flood Summary

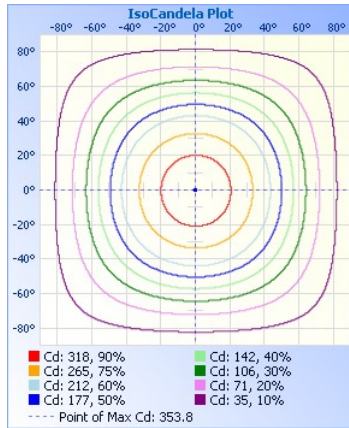
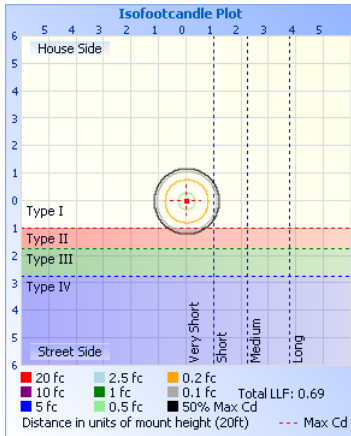
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	96.4%	885.6	163.4	163.7
Beam (50%):	63.4%	582.5	99.5	100.1
Total:	100%	918.1		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	266.3	29%
0-40	426.0	46.4%
0-60	716.8	78.1%
60-90	191.0	20.8%
70-100	100.2	10.9%
90-120	10.6	1.2%
0-90	907.7	98.8%
90-180	10.6	1.2%
0-180	918.3	100%

Lumens Per Zone

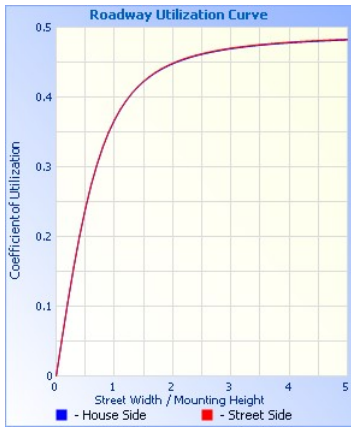
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	33.4	3.6%	90-100	9.0	1%
10-20	94.3	10.3%	100-110	1.5	0.2%
20-30	138.6	15.1%	110-120	0.1	0%
30-40	159.7	17.4%	120-130	0	0%
40-50	156.6	17.1%	130-140	0	0%
50-60	134.2	14.6%	140-150	0	0%
60-70	99.8	10.9%	150-160	0	0%
70-80	61.8	6.7%	160-170	0	0%
80-90	29.4	3.2%	170-180	0	0%



Illuminance at a Distance

Center Beam fc	Beam Width
17.0ft: 1.22 fc	40.6 ft 40.2 ft
34.0ft: 0.31 fc	81.1 ft 80.3 ft
51.0ft: 0.14 fc	121.7 ft 120.5 ft
68.0ft: 0.08 fc	162.3 ft 160.6 ft
85.0ft: 0.05 fc	202.9 ft 200.8 ft
102.0ft: 0.03 fc	243.4 ft 241.0 ft

Vert. Spread: 100.1°
 Horiz. Spread: 99.5°



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.10	1.10	1.10	1.10	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99
1	1.08	1.03	.99	.95	1.05	1.01	.97	.83	.96	.93	.90	.87	.92	.90	.87	.84	.88	.86	.84	.82	.82
2	.99	.90	.83	.78	.96	.88	.82	.70	.85	.79	.75	.73	.81	.77	.73	.71	.78	.74	.71	.69	.69
3	.90	.80	.71	.65	.87	.78	.70	.60	.75	.68	.63	.63	.72	.66	.62	.60	.69	.64	.60	.58	.58
4	.83	.71	.62	.55	.80	.69	.61	.52	.67	.60	.54	.54	.64	.58	.53	.52	.62	.57	.52	.50	.50
5	.76	.63	.54	.48	.74	.62	.54	.45	.60	.53	.47	.47	.58	.51	.46	.46	.56	.50	.46	.44	.44
6	.70	.57	.48	.42	.68	.56	.48	.40	.54	.47	.41	.41	.52	.46	.41	.41	.51	.45	.40	.38	.38
7	.65	.52	.43	.37	.64	.51	.43	.36	.50	.42	.37	.37	.48	.41	.36	.36	.47	.41	.36	.34	.34
8	.61	.48	.39	.33	.59	.47	.39	.32	.45	.38	.33	.33	.44	.37	.33	.33	.43	.37	.32	.30	.30
9	.57	.44	.36	.30	.56	.43	.35	.29	.42	.35	.30	.30	.41	.34	.30	.30	.40	.34	.29	.28	.28
10	.54	.40	.33	.27	.52	.40	.32	.27	.39	.32	.27	.27	.38	.31	.27	.27	.37	.31	.27	.25	.25

Maximum lm: 0.7
Field lm: 885.6
Total lm: 918.1

Candela Table - Type C					
	0	22.5	45	67.5	90
0	354	354	354	354	354
1	353	354	354	354	353
2	353	353	353	353	353
3	353	353	353	353	353
4	352	352	352	352	352
5	352	351	352	352	351
6	351	351	351	351	351
7	350	350	350	349	350
8	348	348	349	348	348
9	347	347	347	347	347
10	345	345	345	345	345
11	343	344	344	343	343
12	342	342	342	342	341
13	340	340	340	340	339
14	337	337	337	337	337
15	335	335	335	335	334
16	332	332	332	332	332
17	329	329	329	329	329
18	327	327	326	326	326
19	323	323	323	323	323
20	320	320	320	319	319
21	317	317	316	316	316
22	313	313	313	312	312
23	310	310	309	309	308
24	306	306	305	305	305
25	302	302	301	301	301
26	298	298	297	297	297
27	294	293	293	293	292
28	289	289	289	288	288
29	285	285	284	284	284
30	280	280	280	279	279
31	276	276	275	274	274
32	271	271	270	270	269
33	266	266	265	265	265
34	262	261	261	260	260
35	256	256	255	255	255
36	251	251	251	250	250
37	246	246	245	245	245
38	241	241	240	240	239
39	236	236	235	234	234
40	231	231	230	229	229
41	225	225	225	224	224
42	220	219	219	218	218
43	215	214	214	213	213
44	209	209	208	208	207
45	204	204	203	203	202
46	199	198	198	197	197
47	193	193	192	192	192
48	188	187	187	186	186
49	182	182	182	181	181
50	177	177	176	176	176
51	172	171	171	170	170
52	166	166	166	165	165
53	161	161	160	160	160
54	156	156	155	155	155
55	151	150	150	149	149
56	146	145	145	144	144
57	140	140	140	139	139
58	135	135	135	134	134
59	130	130	130	129	129
60	125	125	124	124	124
61	120	120	120	119	119
62	115	115	115	115	114
63	110	110	110	110	110
64	106	106	105	105	105
65	101	101	100	100	100
66	96	96	96	96	96
67	92	92	91	91	91
68	87	87	87	87	87
69	83	83	82	82	82
70	79	78	78	78	78
71	74	74	74	74	74
72	70	70	70	70	70
73	66	66	66	66	66
74	62	62	62	62	62
75	58	58	58	58	58
76	55	55	54	54	54
77	51	51	51	51	51
78	48	48	47	47	47
79	44	44	44	44	44

80	41	41	41	41	41
81	38	38	38	38	38
82	35	35	35	35	35
83	32	32	32	32	32
84	29	29	29	29	29
85	26	26	26	26	26
86	24	24	24	24	24
87	22	22	21	21	21
88	19	19	19	19	19
89	17	17	17	17	17
90	15	15	15	15	15
91	13	13	13	13	13
92	12	12	12	12	12
93	10	10	10	10	10
94	9	9	9	9	9
95	8	8	8	8	8
96	7	7	7	7	7
97	6	6	6	6	6
98	5	5	5	5	5
99	4	4	4	4	4
100	3	3	3	3	3
101	3	3	3	3	3
102	2	2	2	2	2
103	2	2	2	2	2
104	1	1	2	2	1
105	1	1	1	1	1
106	1	1	1	1	1
107	1	1	1	1	1
108	1	1	1	1	1
109	1	1	1	0	0
110	0	0	0	0	0
111	0	0	0	0	0
112	0	0	0	0	0
113	0	0	0	0	0
114	0	0	0	0	0
115	0	0	0	0	0
116	0	0	0	0	0
117	0	0	0	0	0
118	0	0	0	0	0
119	0	0	0	0	0
120	0	0	0	0	0
121	0	0	0	0	0
122	0	0	0	0	0
123	0	0	0	0	0
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157	0	0	0	0	0
158	0	0	0	0	0
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163	0	0	0	0	0
164	0	0	0	0	0
165	0	0	0	0	0
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167	0	0	0	0	0
168	0	0	0	0	0
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171	0	0	0	0	0
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173	0	0	0	0	0
174	0	0	0	0	0
175	0	0	0	0	0
176	0	0	0	0	0
177	0	0	0	0	0
178	0	0	0	0	0
179	0	0	0	0	0
180	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 7/11/2019
[MANUFAC] Kichler Lighting LLC
[LUMCAT] CTR180730-07
[LUMINAIRE] 43846XXLEDYY Gen 1 Downlight
[LAMP] Integrated LED AC

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 5
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.